

What is claimed is:

1. A process for removing odorants from a waste system comprising treating said waste system with ferric nitrate at a ratio of less than 2.4 parts nitrate oxygen for each 1 part reduced sulfur.
2. A process according to claim 1, wherein said odorants comprise one or more selected from the group consisting of hydrogen sulfide and reduced sulfur materials.
3. A method for treating wastewater comprising:
introducing ferric nitrate and/or ferric ions to said wastewater in the absence of an acidic environment,
conducting a dewatering operation,
separating solids from said wastewater to produce a liquid portion and a solid portion,
and
returning said liquid portion to said wastewater.
4. A method according to claim 1, wherein said ratio is from 1.5 to 2.4.
5. A method according to claim 1, wherein said ratio is from 1.5-2.3.
6. A method according to claim 1, wherein said ratio of from 1.6 to 2.0.
7. A composition suitable for treating wastewater comprising:
at least about 40 % by weight ferric nitrate and/or a source of ferric ions
up to about 60% by weight of an alkaline or buffering material, said percentages being based on the weight of said composition.
8. A composition according to claim 7, wherein said alkaline or buffering material comprises lime or sodium hydroxide.

9. A composition according to claim 7, wherein said ferric nitrate or ferric ion source is present in an amount from about 65-about 75% by weight based on the total weight of the composition.
10. An acid-reduced system suitable for treating a material sought to be treated comprising:
A least one tank containing ferric nitrate,
At least one means for delivering said ferric nitrate to said material
11. A system of claim 10 wherein said system is mobile.
12. A system of claim 10 wherein said system is integrated into an existing arrangement.
13. A system of claim 10, wherein said system is stationary.
14. A system of claim 10, wherein said at least one tank comprises a composition comprising: at least about 40 % by weight ferric nitrate and/or a source of ferric ions, and up to about 60% by weight of an alkaline or buffering material, said percentages being based on the weight of said composition.
15. A system of claim 10, wherein said material comprises wastewater, sludge and/or sewage.